Amendments to the Claims:

This listing of claims replaces all prior versions and listings of the claims in the present application.

Listing of Claims:

1. (Currently Amended) A tool head for attaching an electrical conductor on a contact surface of a substrate, comprising:

a vibration exciter for generating linear ultrasonic vibrations;

a bonding tool adapted to contact at least one of the contact surface and the conductor, the contacting applying a contact pressure to the conductor in a direction of the contact surface via the bonding tool, the conductor being adapted to be welded onto the contact surface with the aid of ultrasonic vibrations transmitted to at least one of the contact surface and the conductor;

a vibration conductor absorbing the linear ultrasonic vibrations of the vibration exciter; and

a converter situated between the vibration conductor and the bonding tool to convert the linear vibrations into ~~radial~~ torsional vibrations such that the bonding tool is able to be incited to ~~one of radial vibrations and~~ rotary vibrations about a tool axis of rotation, the tool axis of rotation being approximately coincident with a torsional axis of rotation of the converter and oriented approximately perpendicular to the contact surface of the substrate;

wherein ~~the radial vibrations are torsional vibrations, and~~ the vibration exciter generates linear ultrasonic vibrations in a direction approximately parallel to the contact surface of the substrate; and

wherein the converter is a component dynamically balanced with respect to a center axis of the converter, the vibration conductor being laterally secured on a side of the converter so that a center axis of the vibration conductor is oriented perpendicularly to the center axis of the converter.

2. (Canceled).

3. (Previously Presented) The tool head according to claim 1, wherein the bonding tool is secured at one end in the center axis of the converter.

4. (Original) The tool head according to claim 1, wherein the converter has, across its body, regions of nodes of vibration with respect to introductory rotary vibrations, in which a vibration amplitude of the rotary vibrations is zero, the converter being held without play in a tool support in a region of at least one node of vibration.

5. (Original) The tool head according to claim 4, wherein the vibration conductor and the vibration exciter project freely from the converter.

6. (Currently Amended) A tool head for attaching an electrical conductor on a contact surface of a substrate, comprising:

a vibration exciter for generating linear ultrasonic vibrations;

a bonding tool adapted to contact at least one of the contact surface and the conductor, the contacting applying a contact pressure to the conductor in a direction of the contact surface via the bonding tool, the conductor being adapted to be welded onto the contact surface with the aid of ultrasonic vibrations transmitted to at least one of the contact surface and the conductor;

a vibration conductor absorbing the linear ultrasonic vibrations of the vibration exciter; and

a converter situated between the vibration conductor and the bonding tool to convert the linear vibrations into ~~radial~~ torsional vibrations such that the bonding tool is able to be incited to ~~one of radial vibrations and~~ rotary vibrations about a tool axis of rotation, the tool axis of rotation being approximately coincident with a torsional axis of rotation of the converter and oriented approximately perpendicular to the contact surface of the substrate, wherein the electrical conductor is fed to the bonding tool through the converter, through a feed channel.

7. (Canceled).

8. (Canceled).

9. (Canceled).

10. (Currently Amended) A method for attaching an electrical conductor on a contact surface of a substrate, comprising:

generating linear ultrasonic vibrations in a direction approximately parallel to the contact surface of the substrate; and

converting the linear ultrasonic vibrations into rotary vibrations, using a converter, and introducing the rotary vibrations into at least one of the contact surface and the conductor in order to produce a permanent bond between the contact surface and the conductor, the rotary vibrations being incited about an axis of rotation ~~about~~ of a bonding tool, the axis of rotation of the bonding tool being approximately coincident with a torsional axis of rotation of the converter and oriented approximately perpendicular to the contact surface of the substrate.

11. (Previously Presented) The method according to claim 10, wherein the method is performed using a tool head.